

A3 200, lying directly below the die 22, but spaced from the edges of the die 22. The central solder balls 202 can be used for transferring electrical signals and/or heat transfer. Alternatively, the central solder balls 202 can be eliminated, leaving only the peripheral solder balls 200.

IN THE CLAIMS

✓ Please cancel claims 1-15 without prejudice or disclaimer, and please add new claims 16-

42.

PENDING CLAIMS

- ALL SUB B7
16. (New) An apparatus comprising:
a substrate;
a chip mounted on the substrate; and
a mold cap disposed over the substrate such that the mold cap at least partially covers the chip, the mold cap having an extension extending into a corner section of the substrate.
17. (New) The apparatus of claim 16, wherein the extension is a rib structure.
18. (New) The apparatus of claim 16, wherein the extension extends to an edge of the substrate.
19. (New) The apparatus of claim 16, wherein the extension extends into the corner section of the substrate without extending to an edge of the substrate.

20. (New) The apparatus of claim 16, wherein the mold cap has chamfered edges.

SUB 7
B1 21. (New) The apparatus of claim 16, comprising a plurality of solder balls on a surface of the substrate opposite the mold cap.

A4 22. (New) The apparatus of claim 21, comprising a plurality of solder balls on the surface of the substrate in an area directly opposite the chip.

B 23. (New) The apparatus of claim 21, wherein all solder balls on the surface of the substrate are spaced from areas directly opposite an edge of the chip.

24. (New) An apparatus comprising:

a substrate;

a chip mounted on the substrate; and

a mold cap disposed over the substrate such that the mold cap at least partially covers the chip, the mold cap having a plurality of extensions each extending into a respective corner section of the substrate.

25. (New) The apparatus of claim 24, wherein each extension is a rib structure.

26. (New) The apparatus of claim 24, wherein each extension is a rounded structure.

27. (New) The apparatus of claim 24, wherein each extension is a rounded corner of the mold cap.

28. (New) The apparatus of claim 24, wherein at least one extension extends to an edge of the substrate.

29. (New) The apparatus of claim 24, wherein at least one extension extends into a respective corner section of the substrate without extending to an edge of the substrate.

30. (New) The apparatus of claim 24, wherein the mold cap has chamfered edges.

31. (New) The apparatus of claim 24, comprising a plurality of solder balls on a surface of the substrate opposite the mold cap.

32. (New) The apparatus of claim 31, comprising a plurality of solder balls on the surface of the substrate in an area directly opposite the chip.

33. (New) The apparatus of claim 31, wherein all solder balls on the surface of the substrate are spaced from areas directly opposite an edge of the chip.

34. (New) An apparatus comprising:

a substrate;

a chip mounted on the substrate; and

a mold cap disposed over the substrate such that the mold cap at least partially covers the chip, the mold cap having an extension adjacent a corner section of the substrate.

35. (New) The apparatus of claim 34, wherein the extension is a rib structure.

36. (New) The apparatus of claim 34, wherein the extension is a rounded structure.

37. (New) The apparatus of claim 34, wherein the extension is a rounded corner of the mold cap.

38. (New) The apparatus of claim 34, wherein the mold cap has a plurality of extensions each adjacent a respective corner section of the substrate.

39. (New) The apparatus of claim 34, wherein the mold cap has chamfered edges.

40. (New) The apparatus of claim 34, comprising a plurality of solder balls on a surface of the substrate opposite the mold cap.

42. (New) The apparatus of claim 40, wherein all solder balls on the surface of the substrate are spaced from areas directly opposite an edge of the chip.

42. (New) The apparatus of claim 40, wherein all solder balls on the surface of the substrate are spaced from areas directly opposite an edge of the chip.

[illegible]